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Digital High Definition Satellite Receiver
SRT 7004

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Fig. 1

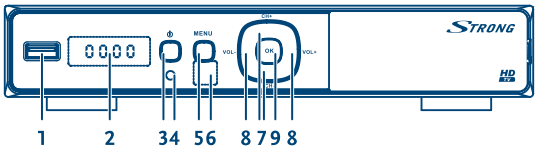


Fig. 2

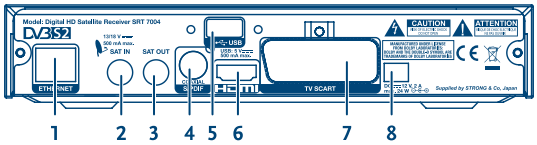


Fig. 3

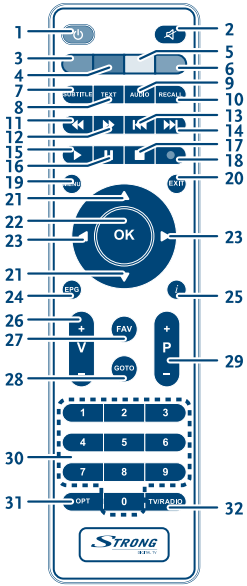


Fig. 4

Fig. 5

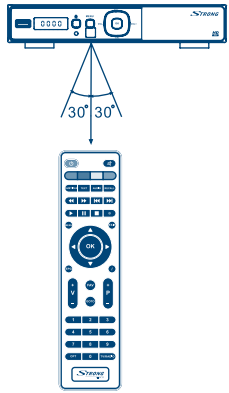


Fig. 6

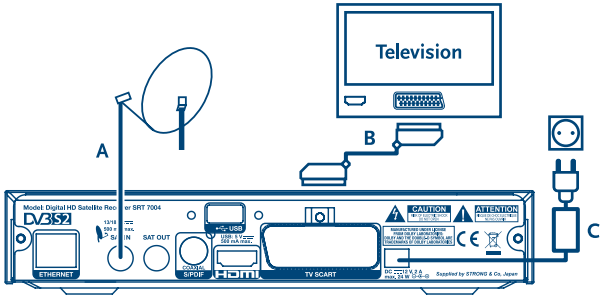


Fig. 7

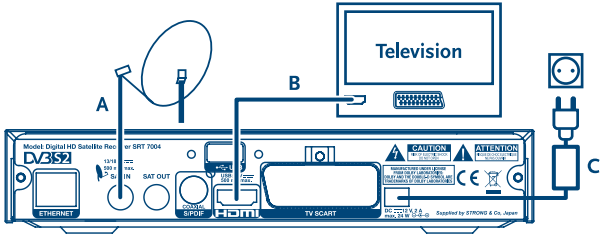


Fig. 8

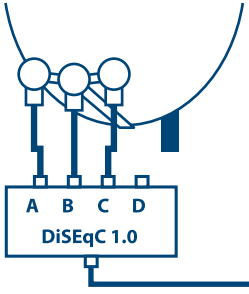
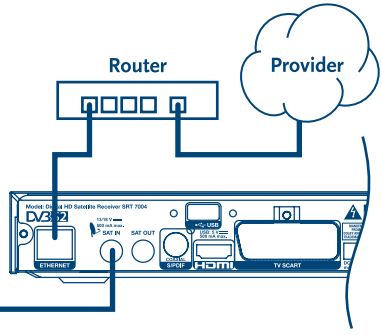


Fig. 9



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SRT 7004 is delivered with USB multimedia support. After downloading the PVR software from the website www.strong.tv the receiver can be upgraded to support the recording function via USB. This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

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*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

STRONG declares that this item complies with the basic requirements and other relevant regulations of directives CE 2004/108/EC and 73/23/EC, RoHS 2002/95/EC

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1.0 INSTRUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety Precautions

- Never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original

packaging with its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the SCART/HDMI cable and outdoor components are in a good condition and the SCART/HDMI connections are well shielded and from good quality.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

WARNING	Indicates warning information.
NOTE	Indicates any other additional important or helpful information.
MENU	Represents a button on the remote control or the receiver.
(Bold characters)	
Move to	Represents a menu item within a window.
(*Italic characters*)	

1.4 Accessories

- 1 user manual
- 1 remote control
- 2x batteries (AAA type)

NOTE:	The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.

1.5 Usage of external USB devices*

- It is recommended to use USB 2.0 storage devices. If your device is not compatible to USB 2.0 specifications, multimedia, recording and timeshift functions of the receiver might not work properly.
- If you are going to use external USB HDD (Hard Disk Drive) please consider that power specifications exceed the supported output of your receiver (5 V/500 mA). If so, please connect your USB HDD to an according external power adapter.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.
- STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on file size, codec, bit rate and resolution.

- Please ensure that either the USB device is already formatted to FAT/FAT32, or format the USB device via your receiver, refer to chapter **7.3 Multimedia** for details.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

2.0 YOUR RECEIVER

2.1 Default PIN: 0000

2.2 Front panel

Fig. 1

1. **USB:** To connect a USB storage device for multimedia functions or software updates
2. **LED display:** Shows channel number in operation and time in Standby mode
3. **Power button:** Switch the receiver to Standby or On.
4. **Standby indicator:** Shows power state of the receiver
   Green LED - receiver is switched on
   Red LED - receiver is in standby mode
5. **MENU** Open the main menu.
6. **Remote control sensor:**
   Receives the signal from the remote control
7. **CH-/CH+:** To change channels without using the remote control.
   Navigation functions in menu mode.
8. **VOL-/VOL+** Decrease/Increase audio volume. Navigation functions in menu mode.
9. **OK** Confirm settings.

2.3 Rear panel

Fig. 2

1. **Ethernet** To connect to a network switch, router or modem
2. **SAT IN** To connect to the LNB of your satellite dish for reception of satellite broadcast signal
3. **SAT OUT** To loop through the satellite signal to a second receiver
4. **S/PDIF coaxial** To connect to a digital or home cinema audio amplifier
5. **USB** For connection of USB device for Multimedia use
6. **HDMI** To connect to the HDMI input of your TV using a good quality HDMI cable.
7. **TV SCART** To connect to TV using a SCART cable
8. **Power cord** The receiver requires a mains voltage of 100~240V AC 50~60Hz (auto selecting). Please check the local power conditions before connecting the receiver to the power supply.

2.4 Remote Control

Fig. 3

1. ⏻ Switches the receiver ON/Standby

2. 🔇	To mute the audio outputs
3. **RED**	Flexible functions in OSD menu and Teletext
4. **GREEN**	Flexible functions in OSD menu and Teletext.
5. **YELLOW**	Flexible functions in OSD menu and Teletext.
6. **BLUE**	In viewing mode: Opens the Timer menu for easy setup timers; Flexible functions in OSD menu and Teletext.
7. **SUBTITLE**	Selects the subtitle language
8. **TEXT**	Opens Videotext if available
9. **AUDIO**	Opens the audio selection
10. ↻	Switches between the last viewed channels.
11. ◀◀	Fast rewind during playback. Each pressing increases the speed (x2 – x32)
12. ▶▶	Fast forward during playback. Each pressing increases the speed (x2 – x32)
13. ⏮	Jumps to the previous file during playback.
14. ⏭	Jumps to the next file during playback.
15. ▶	Starts/resumes the playback.
16. ❚❚	Pause the playback of multimedia files. Starts Timeshift. If Timeshift set to OFF, it freezes the picture.
17. ■	Stops playback of multimedia files.
18. ●	Starts recording the currently watched programme.
19. **MENU**	To open the main menu in viewing mode or to go one step back in the menu
20. **EXIT**	Cancels the current process/exits from the main menu
21. ▲▼	Switches to the next/previous channel in viewing mode, switches to the next/previous page in the channel list or navigates up/down in a menu.
22. **OK**	Viewing mode: Displays the channel list. Menu: activation of the highlighted item
23. ◀▶	Decreases/increases the volume level in viewing mode/navigates through the menus/changing values of settings in a menu
24. **EPG**	Displays the EPG (Electronic Programme Guide) in viewing mode
25. *i*	Press once to display channel number/name and present/following information. Press twice to display detailed event information. Press three times for transponder/signal strength information. Press again to get back to viewing mode.
26. **V+/V-**	Increases/decreases the volume level in TV mode
27. **FAV**	To access your favourite channels. Toggles between available favourite groups
28. **GOTO**	In playback mode: opens the time setting for jumping to the playback time of choice.
29. **P+/P-**	Scrolls pagewise in lists.
30. **0-9**	Channel number and numeric value input
31. **OPT**	No function
32. **TV/RADIO**	Toggles between TV and radio mode

2.5 Installing the batteries

Fig. 4

Remove the battery cover from the remote control and put 2x AAA size batteries inside the compartment.
The diagram inside the battery compartment shows the correct way to install the batteries.

1. Open the cover
2. Install batteries
3. Close the cover

NOTE: The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.

2.6 Using the remote control

Fig. 5

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver, if properly aligned towards the IR eye on the front panel. The remote control will not operate if its path is blocked.
Please note: Sunlight or very bright light (such as TL lighting) might decrease the sensitivity of the remote control.

3.0 CONNECTIONS

For basic setup with 1 dish + 1 LNB: Connect the satellite cable to the SAT IN connector on your receiver. For advanced dish setup, refer to section **3.3**

3.1 Basic connection using an HDMI cable

Fig. 7

a.: Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
b.: Connect one end of a good quality HDMI cable to the HDMI output on your receiver and the other end to the HDMI input of your TV.
c.: Plug the power cord to a suitable wall outlet.

3.2 Basic connection using a Scart cable

Fig. 6

a.: Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
b.: Connect one end of a good quality Scart cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.
c.: Plug the power cord to a suitable wall outlet.

3.3 Connecting multiple fixed LNBs using a DiSEqC 1.0/1.1 switch

Fig. 8

a.: Connect the LNBs of your fixed antenna to the inputs of a DiSEqC 1.0/1.1 switch
b.: Connect the output or "to receiver" connector of the DiSEqC 1.0/1.1 switch to the SAT IN connector on your receiver.
c.: Refer to section **3.1** or **3.2** for TV and mains connections.
d.: Refer to section **7.3.1.1** for Satellite Settings

3.4 Connecting to Ethernet

Fig. 9

Connect a CAT5 cable (or higher quality) to the RJ45 connector of the unit and the other end to an existing switch, router or modem. The default setting is Auto (DHCP) for automatically obtaining IPs and DNS. Select Manual in *Menu NetworkNetwork Settings* to enter own settings if required. When setting up manually, you need to provide a unique IP address, Netmask, Gateway and DNS for your receiver. Refer to the manual of your router or modem to setup properly. The Ping test can be selected to check your connecting, once setup correctly.

4.0 FIRST TIME INSTALLATION

After all connections have been made properly, switch on your TV and make sure the receiver is connected to the main power. If you are using the receiver for the first time or restored to factory default, the *Installation* menu will appear on your TV screen. Press the ◀▶ buttons to select the *OSD Language* of your preference.

Country	Select your country.
Pre-installed List	Some countries come with a pre-installed channel list. If not available for your country, the item is not selectable.
Video Output	Select the output you prefer to use.
TV Format	Select between 16:9FIT. 16:9LB and 4:3LB or 4:3PS
Start Search	If the pre-installed list is selected, the receiver will jump to the first channel in the list. If no pre-installed list available, the Satellite Setting page will appear.

NOTE: If Germany is selected as country, a German pre-set channels list from ASTRA 19.2E will be installed. The pre-installed list will work with a single Universal LNB (LO 9750/10600). If another type of LNB is used, you need to setup the LNB in the Installation Menu, Satellite Setting.

You can continue with the *Installation* menu to scan and install further channels as described below or go to viewing mode by pressing the **EXIT** button to start enjoying the pre-installed channels immediately.

4.1 Installation

4.1.1 Satellite Setting

Press ▲▼ to highlight the satellite your dish is aimed at. When using a multi feed antenna with more than 1 LNB, select the satellites your antenna is adjusted for by pressing the **OK** button and set the appropriate DiSEqC input for the LNBs Astra 19.2E and Hotbird 13E are pre-selected on DiSEqC 1 and 2. The scan process will then search on all selected satellites.
If you have a non-standard setup, then please refer to section 7.3.1.2 of this manual: Configure the antenna settings for the selected satellite.

4.1.2 Signal Adjust

The signal quality bar on the bottom of the screen allows you to fine tune the alignment of your antenna for optimum reception. Adjust your antenna for maximum possible signal quality. When the signal cannot be improved anymore, fix the dish on this position and press the **GREEN** *Scan* button to continue.

4.1.3 Automatic SAT scan

Press ▲▼ ◀▶ to highlight the options of choice and press **GREEN** *Scan* to start the channel search. It is recommended to use the default settings.
For details, please refer to section 7.3.1.3 of this manual: Automatic SAT scan

4.1.4 Channel Search

Your receiver will now perform an automatic channel search. When the process has been completed, all found channels will be stored and the receiver will switch to the first found channel. You are now ready to enjoy your new receiver.
NOTE: If no channels were found during the automatic channel scan, the receiver will return to the *Installation* menu. Please select your language again and refer to chapter **7.3** for further instructions.

5.0 QUICK GUIDE FOR USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new HD receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your STRONG HD receiver.
To turn your receiver ON or to Standby, press the ⏻ button on the remote control.
Choose channels with the ▲▼ buttons. Alternatively, you can also enter the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list.
The volume can be adjusted with the ◀▶ buttons.

6.0 OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter **7** to get familiar with the menu of your new receiver.

6.1 Changing channels

There are different ways to change channels with your new receiver.

- Via direct access
- Via the channel list
- Via the ▲▼ buttons
- Via the ↻ button

6.1.1 Direct access

To gain direct access to a certain channel, simply enter its number with the **0~9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds (or press **OK**) and your receiver will switch to the selected channel.

6.1.2 Channel list

Press **OK** in viewing mode to display the channel list. Press ▲▼ to highlight your channel of choice and press **OK** once to select the highlighted channel. The channel list is equipped with a *Search* function to make it easier to find channels. In the channel list, press **GREEN** and an alphabet popup will be displayed. Press ▲▼ to select the first letter (or letters) of your channel of choice. Press **EXIT** to leave the popup. All channels beginning with the chosen letter(s) will now be displayed. Now select the channel in the filtered list.
The following buttons are available in the channel list and in viewing mode:

GREEN:	Opens an alphabet banner to quickly find a channel
TV/RADIO:	Toggles between TV and radio channels
BLUE:	While in channel list, jump to top line, to scroll through satellites list.

In viewing mode:

FAVOURITE:	To switch to one of the available favourite lists.

6.1.3 Using the ▲▼ buttons

▲ will switch to a higher channel.
▼ will switch a lower channel.

6.1.4 Using the ↻ button

Press the **RECALL** button for switching between the last viewed channels. Please refer to section **7.6** for more details.

6.2 Info banner

At any time during viewing mode you can press the **i** button to get information about the current channel as well as the current and following programme*. Press **i** twice to view detailed info of current and following programmes. Press ◀▶ to see information about current and next programme. Press three times to view technical details about the current channel. Press **i** again or **EXIT** to close the information.
You can change the on-screen duration of the info banner in the *System* menu. Please refer to section **7.5** for more details.

*Programme information is displayed when available. Availability depends on broadcast.

6.3 Selection of audio language

Some channels support a choice of different audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Press ▲▼ to select a stream and confirm with **OK**. With the ◀▶ buttons you can choose between mono left, mono right or stereo audio.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TEXT** button in viewing mode and press the **0~9** or ▲▼ buttons to select the number of the page you wish to see. Subpages (if loaded and available) can be selected with the ◀▶ buttons. The coloured buttons of the remote control allow you to jump to selected pages directly, as indicated on the bottom of the Teletext screen. Press **TEXT** again or **EXIT** to go back to viewing mode.

6.5 Subtitles

Some programmes support a choice of different DVB subtitle languages. Press the **SUBTITLE** button in viewing mode to display a list of available subtitle languages. Press ▲▼ to select a subtitle language and confirm with **OK**.

6.6 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to watch programme schedules and information on screen. Press the **EPG** button to activate this guide (you can also enter EPG via the menu too). Press ▲▼ ◀▶ to select a channel and ▶ to move the highlight to the programme list. In the programme list, press ▲▼ to select or scroll through programmes and ◀▶ to display programme information for the next/previous days. Press **OK** to display detailed information about the selected programme. If there is more than one page of information, press ◀▶ to scroll. Press **MENU** to go 1 step back, **EXIT** to leave the EPG.

NOTE	Availability of EPG data depends on broadcast.

Booking a programme from the EPG

Select a programme as described above. Press **YELLOW** (Book) when you have selected a programme. This will lead you to the Timer (*Schedule*) menu. All details are already filled in for you. Save the timer with **OK**. To display the list of booked events just press the **BLUE** button while being in viewing mode.

Press **RED** or **GREEN** or **P+/P-** to jump 10 places in the list. A total of 32 events can be booked.

6.7 Favourite channels

Press the **FAV** button to access your favourite channels and to toggle between available favourite groups. Please refer to section **7.1.1** for details on how to create favourite lists.

6.8 Instant Recording*

Your new receiver allows you to make an instant recording of the programme you are watching.

Simply press ● and confirm with **OK** to start the recording. Default recording time is set to 2:00 hours. If you like to change the duration time of a recording, press ● and select the duration with ◀▶. During the recording a recording sign will be shown in the channel list. To stop the recording, press ■ and press **OK** again to stop the recording.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

**Please connect a USB storage device with sufficient free space before you start a recording.

6.9 Timeshift*

Timeshift allows pausing live broadcasts and resume playback later. Press ❙❙ in viewing mode to activate Timeshift, according the set Timeshift mode in the menu. A time banner and pause symbol will appear on screen. Live TV is now frozen. Press ❙❙ to resume timeshifted playback. Press ◀◀/**FF** for fast rewind/fast forward. Press ■ to return to live TV.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

7.0 MAIN MENU

The Main Menu consists of the following items: *Installation*, *Channel*, *Multimedia*, *System*, *Others* and *Network*.

7.1 Installation

This menu consists of the following items: *Satellite Setting*, *Automatic SAT Scan*, *Manual Scan*, *Satellite Find*, *Information*. Press the **MENU** button and ◀▶ ▲▼ to navigate through the menu.

7.1.2 Satellite Setting

Press the ▲▼ buttons to highlight the satellite your dish is aimed at. Its antenna settings will be shown at the right side. You can enter the right side with the ◀▶ buttons and return to the satellite list with **EXIT**. From the *Satellite Setting* menu, you can start a scan by pressing the **GREEN** button after you have made the appropriate settings or edit transponders by pressing the **RED** button.

7.1.2 Configure the antenna settings for the selected satellite

Satellite	The name of the selected satellite is shown here.
LNB	The setting is Universal LNB (09750/10600) – the most used on the market.
Transponder	Select a transponder, known to carry a signal.
DiSEqC 1.0	Select the switch type in use. 4 to 1(DiSEqC 1.0) or 16 to 1. (DiSEqC 1.1) Select Tone Burst if a Legacy 2to1 switch is used.
Uncommitted	If uncommitted DiSEqC switches are used, select them here. (Advanced user setup) Press ◀▶ to set the LNB power. 13/18V is the setting for a Universal LNB.
22K Tone	Auto: this setting will follow automatically.
Polarity	13/18V, this setting will follow automatically.
Motor	If using a motor, press ◀▶ to choose *DiSEqC1.2/GOTOX*. Then press **OK** to show the menu for setting the position for your location.

DiSEqC1.2 Move the motor to the right position for locking the signal like explained below.
Move Continue: press ◀▶ for moving *West/East*. It will keep moving as long as the button is kept pressed. By pressing once it will move in 1° step.
Move Step(1): press ◀▶ for moving *West/East* in 0.3° step.
Store Position: to store the current motor position for selected satellite.
Goto Reference: to go to the reference 0° position.

GOTO X Select GOTO X with the ◀▶ buttons. Press **GREEN** to setup your location coordinates. A pop-up window will appear, in which the following settings can be made:

Location: Press ◀▶ to select one of the pre-set locations. Choose a location nearest to you. If you know the coordinates of your place of residence, you can choose *Manual* and make the following extra adjustments:

Longitude Direction: Choose *East* or *West*.

Longitude Angle: Press the **0 ~ 9** buttons to enter the coordinate.

Latitude Direction: Choose *North* or *South*.

Latitude Angle: Press the **0 ~ 9** buttons to enter the coordinate.

When all settings have been made, press **EXIT** to save the data and leave the window.
Now press **OK** to enter the GOTO X menu.
Move Auto will move the dish to the selected satellite automatically.
For *Move Continue*, *Move Step (1)* and *Goto Reference* please see explanation above.

SatCR Select On, if you use a SatCR LNB, otherwise leave to Off. When On is selected press **YELLOW** (Setup SatCR) to enter the Sat setup page.

Position: Select the LNB A or LNB B.

IF Channel: Select the IF channel number according to the specifications of your SatCR LNB. **Note:** Any SatCR LNB in the chain needs a different IF channel number.

Center Frequency: Select the Center Frequency according to the specifications of your SatCR LNB. **Note:** Any SatCR LNB in the chain needs a different Center Frequency.

Select the store button to finalize your settings or press **MENU** or **EXIT** to leave without storing.

7.1.3 Satellite and Transponder edit options

When in *Satellite Setting* use the **RED** TP Edit button to edit Satellites and Transponders.
Use ◀▶ to switch between Left and Right window. (Satellite List and Transponder List.)

Add: While in the satellite name list: Press **YELLOW** to add a new satellite. In the popup window, enter a satellite name with the key table (press ▶), selecting a character by using the navigation buttons. Press **OK** to enter the chosen character. When you have entered the name, navigate to the "floppy disk-symbol" on screen and press **OK** on the remote control to confirm the new name. Select the satellites position E for East and W for West. Longitude: Use the numeric keys to enter the longitude of the satellite. Save the settings with **OK** or cancel with **EXIT**. While in the Transponder list: Press **YELLOW** to add a new Transponder. In the popup window enter the frequency, symbol rate and polarity of the new transponder.

Delete While in the satellite name list: Press **BLUE** to delete a satellite from the list. Press **GREEN** to delete the selected satellite, select **YELLOW** to delete all satellites. Confirm deleting with **OK** or **EXIT** to cancel. While in the

Transponder list: Press **BLUE** to delete a transponder from the list. Press **GREEN** to delete the selected transponder, select **YELLOW** to delete all transponders. Confirm deleting with **OK** or **EXIT** to cancel.

Edit: While in the satellite name list: Press **RED** Edit to enter the Sat Edit window. Select the satellites position E for East and W for West. Longitude: Use the numeric keys to enter the longitude of the satellite. Enter a satellite name with the key table (press ▶), selecting a character by using the navigation buttons. Press **OK** to enter the chosen character. When you have entered the name, navigate to the "floppy disk-symbol" on screen and press **OK** on the remote control to confirm the new name. Save the settings with **OK** or cancel by **EXIT**. While in the Transponder list: Press **RED** Edit to enter the TP Edit window.

Frequency: Use the numeric keys to enter a known frequency of the satellite transponder. Symbol Rate: Use the **0 ~ 9** buttons to enter the symbol rate of the satellite transponder.

Polarity: Press ◀▶ to select the polarization of the satellite transponder. V (Vertical) or H (Horizontal).

After entering all data, press **OK** and confirm with **OK** or press **EXIT** to leave without saving.
Use **GREEN** to enter to the Automatic scan window.

Note	Deleted satellites and transponders from the pre-installed lists can only be retrieved by performing a factory reset.

7.1.4 Automatic SAT scan

Select the options if you want to do automatic scan.

Satellite: Select the satellite you wish to scan, as previously set up in the *Satellite Setting* menu.

Transponder: Select a transponder which is known to carry a signal to check if reception of the satellite is possible.

NIT: Network Information Table. If selected On, the receiver will use the NIT provided by the satellite provider to search for channels. If selected Off, the receiver will search with its pre-installed transponder list.

Programme: Select Free Only to search for Free to Air channels. Select All to include scrambled channels as well. Note: Scrambled channels cannot be watched with this receiver.

Scan Mode: *Default TP*: All stored transponders in the memory will be scanned.

Blind: Slow scan in 2 MHz steps. The receiver will first scan the whole frequency band to find the transponders it can lock on. After gathering all transponders, it scans the transponders one by one to get all available programmes.
One TP: The transponder selected under *Transponder* will only be scanned.

Scan Select: Select All Sat to search all satellites you have selected in the *Satellite Setting* menu. Select Single Sat to search only the satellite selected under *Satellite*.
After configuring, press **GREEN** to start scanning with the selected settings.

Your receiver will now perform an automatic channel search with the scanning progress shown on screen. During the channel search you can quit the scan process with **EXIT** or **MENU**. When the

progress has been completed, all found channels will be stored and the receiver will switch to the first found channel.

7.1.5 Manual scan - Scanning by transponder

Select the options if you want to do a manual scan. (Advanced users.)

Satellite: Select the satellite you wish to scan from, as previously set up in the *Satellite Setting* menu.

Frequency: Enter a known frequency of a satellite transponder with the **0 ~ 9** buttons on the remote.

Symbol Rate: Enter the symbol rate of the previously set satellite transponder with the **0 ~ 9** buttons on the remote.

Polarity: Set the polarization of the previously set satellite transponder, V (Vertical) or H (Horizontal).

NIT: Select On if you want to do a scan starting from the previously set satellite transponder according to the Network Information Table, as offered by the Satellite Provider. Select Off, to scan just the one transponder.

Programme: Select Free Only to search for Free to Air channels. Select All to include scrambled channels as well. Note: Scrambled channels cannot be watched with this receiver.

After configuring, press **GREEN** to start scanning with the selected settings.
Your receiver will now perform a channel search with the scanning progress shown on screen. During the channel search you can quit the scan process by pressing **EXIT** or **MENU**. When the progress has been completed, all found channels will be stored and the receiver will switch to channel number 1. The new found channels are added to the end of the list.

Satellite Finder: To help you finding a satellite and peaking the dish for maximum reception, this item can be very useful. Select the satellite you wish to find or peak, select a transponder which is known to carry a signal. Use the signal and quality bar to find/peak the satellite. Signal strength and quality above ~70% would be considered usable.

Information Find technical information about this receiver as model, hardware and software versions. This information might be asked for if you contact us.

7.2 Channel

Press **MENU** and select *Channel* by pressing the ◀▶ buttons. Use the ▲▼ buttons to select the *TV Channel Editor* submenu. Press **OK** to edit programme settings. Press **EXIT** to exit the menu.

7.2.1 TV Channel Editor

To edit your programme preferences (rename, move, sort, skip, lock, delete, or favourite), please go to the *TV Channel Editor*. Press ▲▼ to highlight a channel, **BLUE** to select a satellite (if more than one available).

Set favourite programme

Your receiver allows you to store channels in up to 8 favourite lists. Due to the large number of channels available on satellite nowadays, this can be a very useful function.

1. Select the preferred programme, then press the **FAV** button.

A *Favourite Type* window will pop up on screen. The following 8 groups are available: *Music*, *Sport*, *Shopping*, *News*, *Movie*, *Talk shows* and two personal lists.
All types of Favourite List are represented with an icon.
Please select one (or more) of them. Below the preview window you can see to which favourite list the programme belongs.

2. Repeat the previous step to select more favourite programmes.
3. To confirm and exit the menu, press **EXIT**. You will be prompted to confirm the changes.

Disable favourite TV or radio programme
Repeat step 1 described above and deselect with **OK** in the *Favourite Type* window.

View favourite programme

1. In normal viewing mode (no menu mode) press the **FAV** button repeatedly to display the lists of favourite programmes. (Or press ◀▶ to switch between available favourite lists.)
2. Select your favourite programme by ▲▼ and press **OK** to switch to it.
3. Now in viewing mode you can select channels from the chosen favourite group only by pressing ▲▼. If you want to change to the main channel list, toggle the **FAV** button in viewing mode until FAV Off is displayed.

Delete a TV or radio programme

1. Select the programme you want to delete and press the **YELLOW** button. A popup window will appear to decide to delete the selected channels or to delete all channels.

(Re-scan required.) A cross-sign will appear behind the selected channel. Press **OK** to delete the programmes. You will be prompted to confirm the changes.

2. Repeat the previous step to delete more programmes.

Skip TV or radio programme

1. Select the programme you want to skip and press the **EDIT** button. Then press the **BLUE** button.
2. The programme will be marked to skip. The receiver will skip this programme while zapping between programmes in normal viewing mode (in channel list mode the skipped channels remain selectable).
3. Repeat the previous step to skip more programmes.
4. To confirm and exit the menu, press **EXIT**.

Disable a skipped TV or radio programme
Press the **BLUE** button on the programme marked with the skip symbol.

Move a TV or radio programme

1. Select the programme you want to move, and then press the **EDIT** button. Then press the **GREEN** button.
2. A move symbol will appear. Press **OK**.
3. Press ▲▼ to select the new position of the programme.

4. Press **OK** to confirm the new position.
5. Repeat the above steps to move more channels.

Locking programmes
You can lock selected programmes for restricted view.

1. Select the programme you want to lock, and then press the **GREEN** button. The programme is now marked as locked.
2. Repeat the previous step to select more programmes
3. To confirm and exit the menu, press **EXIT**.
4. In viewing mode: When coming to a locked channel: Press exit at the warning popup and enter your Password.

Note	Programmes will only be locked when channel lock is set to On in the System menuParental Control.

Note	We recommend changing of the default password **(0000)** to one of your preference. Please refer to chapter **7.2.5 System** for more details.

Disable a locked TV or radio programme
Press the **GREEN** button on the programme marked with the lock symbol.

Rename a TV or radio programme

1. Select the programme you want to rename and press the **EDIT** button. Then press the **RED** (Name) button. An alphabet popup appears.
2. In the alphabet popup select a character by using the navigation buttons. Press **OK** to enter the character. When you have entered the new name, navigate to the 'Floppy Disk' sign on screen and press **OK** on the remote control to confirm the new name.
3. To store the changes and exit the menu, press **OK**.

7.2.2 Sort

Here you can sort your channels in the following orders:

1. Select the programme you want to rename and press the **EDIT** button. Then press the **YELLOW** button.
2. A popup will appear with the following possibilities:

A-Z/Z-A	Sort the channels in alphabetical order (A-Z or Z-A)
TP	Sort the channels in frequency order as found on Satellite.(Low - High)
FTA/Scrambled	Sort the channels from Free to Air to Scrambled
HD/SD	Sort the channels from HD to SD order.
Satellite	Sort the channels by satellite.

Note	The 1st time the option is selected, the first possibility is executed, if you select the same option again, the 2nd possibility is executed. (Example: 1st time A-Z/Z-A will yield A-Z order. 2nd time will yield Z-A)

7.2.3 Radio Channel Editor

Press **MENU** and select *Channel* using the ◀▶ buttons. Use the ▲▼ buttons to select the *Radio Channel Editor* submenu. Press **OK** to edit programme settings. Press **EXIT** to exit the menu. Refer to **7.1.1 TV Channel Editor** for explanations of the menu items.

7.2.4 EPG (Electronic Programme Guide)

Please refer to section **6.6** above.

7.2.5 System

Press **MENU** and select *System*.
Select an option and press **OK** to enter a menu item.
Use ◀▶ to adjust the settings.
This menu consists of the following items: *Language*, *OSD Style*, *Clock setting*, *TV setup*, *Adv Timer*, *Parental Control*, *Update&Backup* and *Factory Setting*.

7.2.5.1 Language

Press **MENU** and select *System*, then Language.
Select an option and press ◀▶ to adjust the setting.
Press **EXIT** to exit the menu.

OSD Language:	Select the preferred language for the On Screen Display.
Audio Language:	Select the preferred audio language for watching TV channels. If the language is not available, the default programme language will be used.
Subtitle Language:	Select the preferred subtitle language.

7.2.5.2 OSD Style

OSD Transparency:	Select the amount of Transparency you prefer in 8 steps.
Banner Display Time:	Set the time-out for the info banner. Possible settings are: *Always*, *1~30* seconds in several steps.

7.2.5.3 Clock setting

Press **MENU** and select *Clock setting*. The menu provides options to adjust the time and date settings.
Press ▲▼ to select an option and ◀▶ to adjust the setting. Press **EXIT** to exit the menu.

GMT Usage:	Select *On* for automatic time and date updates from live signal or *Off* for entering them manually.
Time Zone:	Select the Offset from GMT standard time.
Set Date:	Enter the date using ◀▶ and the numeric buttons when *GMT Usage* is set to *Off*.

Set Time: Enter the time using ◀▶ and the numeric buttons when *GMT Usage* is set to *Off*.

Sleep Time: Enter the duration the unit should continue running before switching itself off. Select *15* min up to *120* min or Off.

Summer Time: Select *On* or *Off* depending on the year's period.

7.2.5.4 TV setup

Press **MENU** and select *TV Setting*. The menu provides options to adjust the interaction between TV (monitor) and this receiver. Press ▲▼ to select an option and ◀▶ to adjust the setting. Press **EXIT** to exit the menu.

TV Format

You can set the display format to available settings:

For 4:3 TVs:

4:3LB: 4:3 LetterBox: The full 16:9 picture will be displayed on your 4:3 TV set with black bars above and below the picture.

4:3PS: 4:3 Pan&Scan: The centre of the 16:9 picture will be displayed full-screen on your 4:3 TV

16:9LB Combination of Letter-box and Pan&Scan.

For 16:9 TVs:

16:9FIT: Select when using a 16:9 TV set. Whole picture will be shown.

TV mode

Only PAL possible.

Video output

This setting is relevant when the receiver is connected to the TV set via Scart. Select *Scart RGB* for the best picture quality or *Scart CVBS* if your TV doesn't support *RGB*. If connected by HDMI, leave it on HDMI.

TV Resolution

If the video does not appear correctly, change the setting. These settings match the most common settings for HDMI.

576i: For analogue TVs (on Scart connection).

576p: For digital SD TVs (some digital TVs do not support this mode).

720p_50Hz: For digital HD TVs (on HDMI connection).

1080i_50Hz: For digital HD TVs (on HDMI connection).

1080p_50Hz: For digital HD TVs (on HDMI connection).

Auto: The best possible resolution available will be auto negotiated by between TV and receiver ('handshake') when using a modern digital HD TV when connected with an HDMI cable.

Digital Audio Output: Select digital audio output mode. Settings affect S/PDIF output.
LPCM – audio from any format will be converted to digital stereo PCM format.
RAW – audio from receiver will be sent in original digital format to be used in combination with Home Theatre Sets or Digital Amplifier with Multi Audio capability.

Auto Switch Off
Auto Standby is a new, power saving feature that helps you reduce power consumption. It will switch off the receiver when no command is given for the defined period of time. It is set per default to 3 hours. With the ◀▶ buttons you can select between different time intervals or *Off* for disabling the feature.

NOTE	If there are timers running, the auto standby function will be disabled for the booked time.

TV Brightness	Some adjustment can be made to the brightness of the picture.
TV Contrast	Some adjustment can be made to the contrast of the picture.
TV Saturation	Some adjustment can be made to the colour saturation of the picture.

These features are useful for analogue TVs, in practice, best left on default 50.

7.2.5.5 Adv Timer (Schedule)

In this menu you can setup the schedule for automatic switching to the defined channels at a particular date/time. The timer menu can be entered directly from viewing mode by pressing the **BLUE** button.

Add:	Press **OK** to add a new booking. In the appearing dialogue select channel type and number, the starting date and time, end time, repeat cycle mode (once, daily, weekday, weekend day or weekly) and timer mode (Schedule, Recorder). Tip: For selecting the channel number you can use the **0 ~ 9** buttons. When you have entered all parameters, press **OK** to store your booking. To edit an existing booking select that booking and press the **OK** button.
Del:	Press the **RED** button to delete a booking from the list. Press **OK** to confirm deleting or **EXIT** to cancel.
Page	Use **YELLOW** and/or **BLUE** to jump quickly through your list of bookings.

NOTE	You can set timers for programmes directly from the EPG. Please refer to section **7.2.4** for more details.

7.2.5.6 Parental Control

In this menu you can setup your preferences for Parental Control. (**Default Password: 0000**)

Menu Lock	Use this option to prevent entering the menu and changing settings. The menu items can only be altered after entering the password.
Channel Lock	When set to On, channels marked as Locked in the Channel Editor are indeed only viewable after entering the password.
Censorship Lock	Some Satellite Providers sent an age restriction in their signals. When an age is selected here, and an age restriction signal higher or equal is received as the set age, the programme will only be viewable when the correct password is entered. The options are *4* to *18*, *no block*, *total block*.
Change Password	Press **OK**, enter the old password, then enter the new password, and confirm the new password. Memorize it well.

7.2.5.7 Update & Backup

Select *System* then *Update & Backup* from the main menu and press **OK** to select.

Image upgrade

NOTE:	The front panel USB port is especially adapted for Software update.

The upgrade can be performed with an USB device, preferably an USB pen drive.
The USB device must have been formatted in FAT32.
Download the required update file for your receiver model from the support page on our website www.strong.tv or contact your local dealer.
Unzip the file on your computer, if necessary, and then copy it to root folder of your USB storage device.
Connect the USB storage device to the front USB port of the receiver. Press **MENU** and select *System* then *Update & Backup* and *Image Upgrade*. Select the correct USB device (USB0 or USB1). Press **OK** to enter the software file list. Select the file containing the software image with ▲▼◀▶ and press **OK** to initiate the software update. An attention banner will now be displayed. Press **OK** to start the update (or **EXIT** to cancel it). Follow the instructions displayed on screen. The update process will take some time. After the update process has been completed the receiver will reboot and the receiver will start with the last shown channel.
You also can reload your previous backed up channel a favourite database, see **Image backup**.

WARNING	NEVER power off the receiver or remove the USB device during the software update process. Doing so might cause irreparable damage to your receiver and will void your warranty.

Image Backup

NOTE:	The front panel USB port is especially adapted for Image backup.

This menu allows you to save the channel data base with favourites, the application or backup all (select it in the top line) of your receiver to a USB device. This very convenient feature enables you to save your personal settings like Channel and Favourite-lists on an USB storage device and load them back to the receiver later. This feature is especially helpful after unintentional changes or factory reset. In such cases just skip the *Installation* by pressing **EXIT** in *Installation* and select the database management menu in *System*, *Update&backup*.

7.2.5.8 Factory setting

Reset your receiver to the default factory settings. Sometimes useful if the unit suddenly behaves in an unexpected manner, e.g. after a power failure.
Select *System* then *factory setting* in the main menu and press **OK** to select. Enter your PIN code or the **DEFAULT PIN: 0000** and press **OK** to confirm. This option will delete all your channels and settings. The receiver will reboot and start with the initial *Installation* menu.

WARNING	A factory reset will permanently delete all your personal settings, timers and stored channels. Please consider this before you perform a factory reset.

Others

Here you will find some simple convenient items to use.

Calendar	Find out quickly what day is a certain date.
Calculator	Have quick access to a digital calculator.
Game	Select from three games, follow the instructions on screen.

Network

The unit is equipped with a network connection, which can provide weather forecasts and RSS news reports via an Internet portal. Connect a CAT5 cable (or higher quality) to the Ethernet RJ45 connector of the unit, and the other end to an existing switch/router/modem which is connected to the internet. The default setting is Auto (DHCP) for automatically obtaining IPs and DNS. Select Manual in Network Settings to enter own settings if required. Refer to the manual of your router or modem to setup properly. The Ping test can be selected to check your connecting, once done.

Weather	You can setup several cities to monitor 5-day weather forecast on regular basis. Up to 4 cities can be monitored around the globe. Select pre-defined cities or enter your own preference with the **RED** search button and use the key-pad to enter. Select the 'floppy-disk' symbol to save. Press **YELLOW** to save all cities. Delete a city with **BLUE**, then press **YELLOW** to save. After setting up for the first time, exit from the Weather app and enter again to see the forecasts. Use ◀▶ to scroll through the cities. To edit cities again, press **YELLOW**.
RSS Feed	Enter your own preferred RSS feeds or use the default settings with **RED**. Start editing by using the ◀▶ buttons and the appearing key-pad. Be sure to save with the 'floppy-disk' symbol. Press **OK** to connect to a selected feed. Use the ▲▼◀▶ buttons to scroll through the content.

Note	Applications available in our product(s) may change from time to time and are not guaranteed to work at all times. They are subject to technical, commercial and/or license related changes.

7.3 Multimedia

NOTE:	The back panel USB port is especially adapted for Multimedia.

Press **MENU** and select *Multimedia*.

The menu provides the *Multimedia* feature for playback of *Movie*, *Music* and *Photo*. The different file formats listed below are supported. In this menu you can make video and photo configurations. The unit supports USB devices with FAT32 format. Make sure your USB device is formatted correctly.

NOTE:

- STRONG cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this unit.
- With large amounts of data, it may take longer for the system to read the contents of a USB device.
- Some USB devices may not be properly recognized. Even when they are in a supported format, some files may not play or display depending on the content.
- It is possible to use already by PC formatted NTFS HDDs.

7.3.1 Multimedia*

If there is no USB device plugged in, a warning message 'Device is not available' will be displayed. When a USB device is detected you can select between *Movie*, *Music* and *Photo* in this menu. Select one of them, press **OK** to enter the file browser and select the file you want to play.

Movie:	Video files in various formats are supported (MPG, MPEG, TS, VOB, MP4, AVI, ...)**
Music:	Supported file formats are MP3 and WMA**
Photo:	Supported file formats are JPG and BMP**
My Recorder:	Manage your made recordings.
Recorder Settings:	Manage your settings for Timeshift and recordings.

Also available item in the menu is: *Remove Device*.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

**STRONG cannot guarantee the playback of files although extensions are listed here, as the correct playback depends on codec used, data bit rate and resolution as well. Please consult the STRONG Hotline in your country to get more details.

7.3.1.1 Movie

In the *Movie* menu you have to navigate to a movie file.
Select the file and press **OK** to start playback in preview mode.
Select 'Upper Folder' to go back to the parent folder.
During playback you can use the playback control buttons, such as ▶, ❚❚, ■, ◀◀, ▶▶, ⏮, ⏭. You can check the file details by pressing the ***i*** button in full screen mode. To close the banner, press ***i*** again. Press the **GOTO** button and enter the time moment you want to jump to with the **0**~**9** buttons, then press **OK** to confirm. With the ◀◀ ▶▶ buttons you can rewind or forward playback in x2, x4, x8, x16 and x32 speed. When it has fast rewound to the beginning, playback of the current file will be resumed. When it has fast forwarded to the end, playback of the next file starts. With the ⏮ ⏭ buttons you can jump to the previous/next video file. Press **GREEN** to select the correct character set for subtitle files.

Movie Subtitle

This subtitle function is only relevant in the *Movie* menu for movies which contain subtitle files in .srt format.
During playback, press **SUBTITLE** to select a language and confirm with **OK**. During playback of *Movie* files you can press **SUBTITLE** twice to change the subtitle settings described below:

Subtitle Size:	Choose subtitle size between *Small*, *Normal* and *Big*.
Subtitle BG:	Choose subtitle background between *White*, *Transparent*, *Grey* and *Yellow-Green*.
Subtitle Font Colour:	Choose subtitle font colour between *Red*, *Blue*, *Green*, *White* and *Black*.

7.3.1.2 Music

These options available with the **RED** button:

Random:	On: Music will be played in a random order.
Repeat:	All: Repeat at the end of the list.
Info option:	Show Lyrics or Music info
Display:	Show Equalizer or Cover

Options available with the **GREEN** button: Folder view or Thumbnail view, During slide show: Switch between Equalizer and Cover.
Options available with the **YELLOW** button: Switch between Lyrics or Music info

7.3.1.3 Photo

These options available with the **RED** button:

Random:	On: Pictures will be shown in a random order.
Repeat:	All: Repeat at the end of the list.
Interval Time:	You can adjust the slide show interval from Slow to Fast..
Effect:	On: Implement a random slide show effect.

Options available with the **GREEN** button: Folder view or Thumbnail view, During slide show: Select music to accompany your slide show.
Options available with the **YELLOW** button: Big or Small thumbnails.

7.3.1.4 My Recorder*

In the *My Recorder* menu you can access, manage your earlier recorded events/programmes.
With ▲▼ you can highlight the recording on the left side of the screen. With ◀▶ you can scroll the pages, depending on the available recordings. Playback of the highlighted recording will start after a few seconds in preview mode on the right side of the screen. To start playback in full screen press **OK**.
If multiple USB devices are connected, press ▲ to highlight the "USB/USB1/1" menu point, and select the USB device with ◀▶ and press **OK**. It will display the available recordings from the selected USB device. The following functions can be used with the colour buttons: *Rename, Device, Select, Del*.
Rename **RED** *EDIT*: Select or highlight the recording which you want to rename with ▲▼◀▶, then press the **RED** *Edit* button. The ABC window appears on the screen.
In the ABC window you can use ▲▼◀▶ to move the cursor. To add the selected character, or process the selected function, press **OK**. When you have renamed your recording, select the "Floppy Disk" symbol and press **OK**.
USB Device **GREEN** *DEVICE*: You can check the capacity and format the connected USB devices from this menu point. Press the **GREEN** *Device* button. The USB device menu displays. With ▲▼◀▶ you can select the *Slot*, *Partition* and the *Format* option. Below the selected device/partition information is displayed: *Free space, Used space, Total space*. If you want to format the selected device, select the partition, highlight the *Format* option with ▲▼ and press **OK**. A confirmation window pops up to continue and proceed formatting. Select an action with ◀▶ and press **OK**. Please note that after formatting all currently stored data will be lost from the device.
Select **YELLOW** *Select*: For selecting multiple recordings for further process, highlight the recording with ▲▼ and then press the **YELLOW** *Select* button to select the recording. A check mark symbol appears next to the recording's name. Repeat the steps to select your recordings for further process.
Delete **BLUE** *Del*: For deleting recording(s), highlight the recording which you want to delete with ▲▼ and then press the **YELLOW** *Select* button to mark/select the file(s), then press the **BLUE** *Del*

button. A confirmation request message pops up for deleting the selected file(s), select the delete or the cancel option with ◀▶ and press **OK**.
In playback mode the following functions and buttons can be used: ▶, **OK**, ■, ▶▶, ◀◀, ⏮, ⏭, **SUBTITLE**, **TEXT**, **AUDIO**, ***i***, **GOTO**, **0~9**, **STEP**, **ZOOM+**/**ZOOM-**, 🔇, **EXIT**.

▶:	Starts/resumes playback
OK,❚❚:	Pauses/resumes playback
■:	Stops playback and returns to the recording manager from full screen playback.
◀◀ ▶▶:	With ◀◀ ▶▶ you can rewind or forward playback in x2, x4, x8, x16 and x32 speed.
⏮ ⏭:	Jump to the previous/next video file.
SUBTITLE:	Displays the subtitle selection window, if the recording contains subtitles you can select the subtitle language to display.
TEXT:	If the recording contains TELETEXT, it displays the recorded teletext content.
AUDIO:	If the recording contains multiple audio tracks, in the audio selection window you can select the audio channel/language, with ◀▶.
i:	Displays information about the recording, the playback time and the additional function buttons. Press ***i*** again to remove the information window.
GOTO:	Continue playback from the set time, press the **RED** *GOTO* button, with the **0~9** buttons add the playback time **00:00:00** from where you want to continue the current playback and press **OK**.
STEP:	Press the **GREEN** *Step* button to playback step by step.
ZOOM+:	Press the **YELLOW** *ZOOM+* during playback to zoom in the video, press again to zoom deeper, with ◀▶▲▼ you can move the picture to which part you like to display.
ZOOM-:	Press the **BLUE** *ZOOM-* during playback to zoom out in the video, press again to zoom out.
🔇:	Mutes audio.
EXIT:	Exits from the recording manager, returns to the last viewed channel.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

7.3.1.5 Recorder Settings*

In the *Recorder Settings* menu you can setup the recording and Timeshift modes.

Timeshift mode:	*PAUSE, AUTO, OFF.* Set the Timeshift mode with ◀▶.
PAUSE:	In the *PAUSE* mode, Timeshift can be activated in the channel view mode by pressing ❚❚.
AUTO:	In the AUTO mode, the Timeshift starts immediately in the channel view mode. If you switch channels the previously timeshifted programme will be deleted and the receiver starts to timeshift the currently watched programme. In the Timeshifted content you can use ◀◀▶▶, ▶ to view the earlier parts of the programme or to return to the actual point.
OFF:	The Timeshift function disabled.
One button recording:	*OFF, ON.* With ◀▶ you can switch ON/OFF the one button recording mode.
ON:	If the ● button is pressed in the one button recording mode the recording starts and are processed in the menu set recording length time. *OFF:* After pressing ● the recording length time window appears on screen. With ◀▶

(15 min steps) and ▲▼ (1 hour steps), you can setup the recording length time and then press ● again. During the recording you can change the recording length time by pressing ●.

Default Recording Period:

You can setup the default recording time period by pressing ◀▶.

*This user manual describes the full functionality including the recording function and may not be applicable if the PVR software has not yet been installed.

8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Please check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local Service line or a STRONG dealer. Alternatively you can send a support mail via our website: www.strong.tv. NEVER open or disassemble your receiver. This may cause a dangerous situation and will void the warranty.

Problem	Possible cause	What to do
The display on the front panel does not light up.	Mains cable is not connected Mains fuse blown	Check that the mains cable is plugged into the power socket Check mains fuse
No sound or picture, but the front panel shows red light	The receiver is in standby mode	Press the On/Standby button
No sound or picture, but the receiver menu can be seen on TV screen. (press 'menu' on remote)	Channel is off-air The satellite dish is not pointing at the (correct) satellite. Channels deleted in edit menu	Try other channel(s). Check the signal level in the Antenna Setup menu. Adjust the dish. Scan for channels (again)
No signal or weak signal, intermittent reception.	Cables might have loosened. Moisture might have entered into cables or connectors. Heavy rain at present. Heavy storm at present.	Check the cable connections, LNB and other equipment connected between the LNB and the receiver, or peak the dish. Wait for rain/storm to subside
	The satellite dish is not pointing at the (correct) satellite(s)	Adjust the dish. Ask a local satellite specialist for advice.

	Satellite dish is too small Trees or buildings in path.	Change to a larger dish Change position of dish
	Signal is too strong, dish is oversized.	Connect a signal attenuator to the LNB input. Ask a local satellite specialist for advice.
Bad picture / blocking error during heavy rain.	Heavy rain will attenuate satellite signals, below a certain level blocking will occur.	Make sure your dish installation is up to standards to minimize rain effects. When in doubt, ask a local satellite specialist for advice.
Receiver switches off after 3 hours of inactivity of remote commands	Power saving Auto standby function is activated	Switch Auto standby function off, if you don't like it.
Receiver is suddenly behaving unexpectedly or erratically, for example after a mains power failure, power glitch, lightning strike near you or after a (interrupted) software update.	Mains power problems could cause a glitch in software in rare cases.	Load factory setting from the System menu. If not recoverable, ask a local satellite specialist for advice or contact local Service Hotline or send email to our Support via www.strong.tv
No picture or sound, but display and green LED are on.	HDMI or Scart is not selected on your TV or Audio Amplifier TV is not switched on	Switch to correct TV input Switch Audio Amplifier to correct input Switch TV on
The RCU is not working	Battery exhausted RCU is incorrectly aimed	Change the batteries Aim RCU at the receiver, or check that nothing blocks path to the front panel
No audio, only video	Audio is muted on receiver, audio is muted on TV. Audio Amplifier is muted. Scart cable is not inserted correctly.	Check if audio is muted. Insert Scart cable properly
Scrambled service message	Channel is scrambled.	Select alternative channel.
The external USB HDD does not start.	Power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.

Password forgotten		Contact local Service Hotline or send email to our support via www.strong.tv

9.0 SPECIFICATIONS

Demodulator

Demodulation:	QPSK, 8PSK
Input symbol rate:	DVB-S QPSK: 1 ~ 45 Ms/s DVB-S2 8PSK/QPSK: 10~30 Ms/s
FEC decoder:	Auto, 1/2, 2/3, 3/4, 5/6, 7/8 in DVB-S mode 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 in DVB-S2 mode 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 in 8PSK mode

Video Decoder

Profile level:	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC
Input rate:	Max. 20 Mbit/s
Aspect ratio:	4:3 and 16:9, Pan & Scan, Pillarbox Letterbox, Auto
Video resolution:	PAL 50Hz: 576i, 720p, 1080i, 1080p

Audio Decoder

Audio decoding:	MPEG-1 Layer 1 & 2, AC3 Downmix
Audio mode:	Mono L/R, Stereo, Dolby® Digital, Dolby® Digital Plus*
Sampling rate:	32, 44.1, 48 kHz

*Dolby and the double-D symbol are registered trademarks of Dolby Laboratories

Tuner

Type1 F Type, IEC169-24, Female

Input frequency range:	950 – 2150 MHz
RF impedance:	75 Ohm unbalanced
Signal level:	-65 to -25 dBm
LNB power:	13/18 V DC (+/- 5%), max. 0.5 A, overload protected
DiSEqC versions:	1.0, 1.1, 1.2, GOTO X, Tone burst, SatCR

System & Memory

Main processor:	NOVATEK NT78326SU
Flash memory:	8 MBytes
System memory:	128 MBytes

Multimedia

Video playback:	Supported in various formats (MPG, MPEG, TS, VOB, MP4, AVI…)*
Audio playback:	MP3, WMA*
Picture view:	JPG, BMP*

*STRONG cannot guarantee the playback of files although extensions are listed here, as it depends on codec used, data bit rate and resolution.

Network

Connector:	Ethernet RJ45
Wired IP setup:	Auto (DHCP) and Manual setup.

Connectors

Ethernet	RJ45
SAT IN	F-type female
SAT OUT	F-type female
HDMI	
USB 2.0	Type A Connector
TV SCART	RGB, CVBS, Audio L/R output with volume control
S/PDIF	Dolby® Digital Out (Coaxial)

Power socket for external power supply

General Data

Supply voltage:	100 – 240 V AC 50/60 Hz
Output voltage:	DC 12V, 2A
Power consumption:	max. 24 W, typ. 10 W
Power consumption in standby:	0.65 W
Operating temperature:	0 ~ +40° C
Storage temperature:	-10 ~ +50° C
Operating humidity range:	10 ~ 85% RH, Non-condensing
Size (W x D x H) in mm:	220 x 170 x 45
Weight:	0.52 kg